Periodic Table Basics

Step 1: Complete the squares for each element by adding the atomic number, name, and atomic mass.

Write the atomic number at the top of the square.

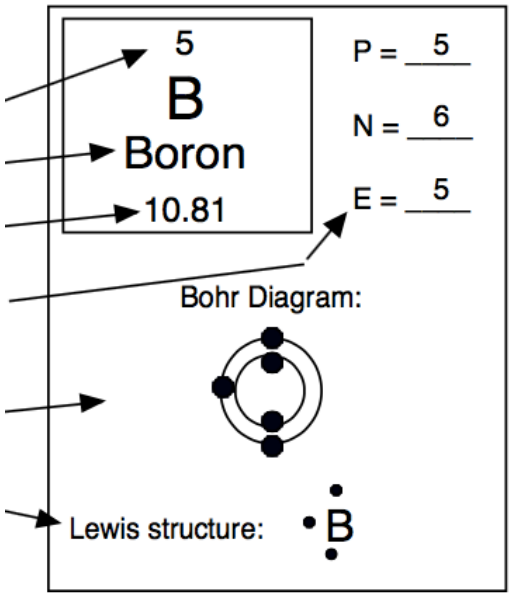
Write the element's name under the symbol.

Write the atomic mass at the bottom of the square.

Step 2: Determine the number of protons, neutrons, and electrons in each element.

Step 3: Create a Bohr diagram for each element.

Step 4: Draw the Lewis Structure for each element.



Step 5: Use the following colors to shade in the square for each element. You should ONLY color in the small square in the upper left-hand corner and not the entire card.

Green = Li & Na	Pink = O & S	Blue = Be & Mg	Purple = F & Cl
Orange = B & Al	Red = C & Si	Tan = N & P	Yellow = He, Ne, & Ar

Step 6: In the bottom right corner of each card, put a star ★ to indicate if it's a metal and a check mark ✓ to indicate if it's a non-metal.

★	Li	Be		✓	H	He	B	C	N
	Na	Mg			O	F	Ne	Si	P
	Al				S	Cl	Ar		

Step 6: Cut the cards apart and arrange according to atomic number in the pattern shown below.

1							2
3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18

Step 7: Answer the questions on the back of this worksheet using the information on your Periodic Table.

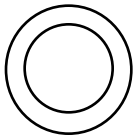
B

P = ___

N = ___

E = ___

Bohr Diagram



Lewis Structure B

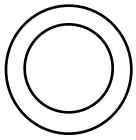
Li

P = ___

N = ___

E = ___

Bohr Diagram



Lewis Structure Li

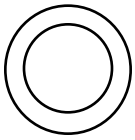
Ne

P = ___

N = ___

E = ___

Bohr Diagram



Lewis Structure Ne

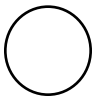
He

P = ___

N = ___

E = ___

Bohr Diagram



Lewis Structure He

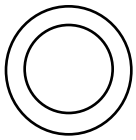
C

P = ___

N = ___

E = ___

Bohr Diagram



Lewis Structure C

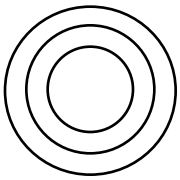
P

P = ___

N = ___

E = ___

Bohr Diagram



Lewis Structure P

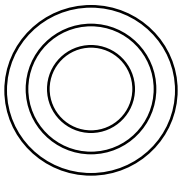
S

P = ___

N = ___

E = ___

Bohr Diagram



Lewis Structure S

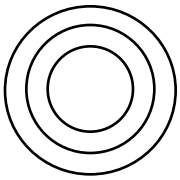
Mg

P = ___

N = ___

E = ___

Bohr Diagram



Lewis Structure Mg

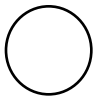
H

P = ___

N = ___

E = ___

Bohr Diagram



Lewis Structure H

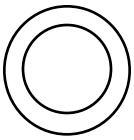
N

P = ___

N = ___

E = ___

Bohr Diagram



Lewis Structure

N

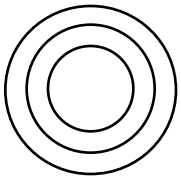
Al

P = ___

N = ___

E = ___

Bohr Diagram



Lewis Structure

Al

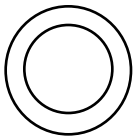
F

P = ___

N = ___

E = ___

Bohr Diagram



Lewis Structure

F

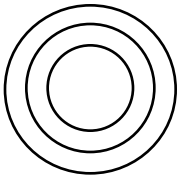
Ar

P = ___

N = ___

E = ___

Bohr Diagram



Lewis Structure

Ar

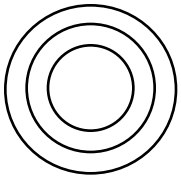
Si

P = ___

N = ___

E = ___

Bohr Diagram



Lewis Structure

Si

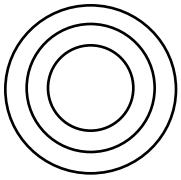
Na

P = ___

N = ___

E = ___

Bohr Diagram



Lewis Structure

Na

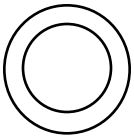
Be

P = ___

N = ___

E = ___

Bohr Diagram



Lewis Structure

Be

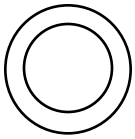
O

P = ___

N = ___

E = ___

Bohr Diagram



Lewis Structure

O

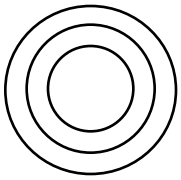
Cl

P = ___

N = ___

E = ___

Bohr Diagram



Lewis Structure

Cl